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Collana	Carbon Nanostructures, , 2191-3005
Disciplina	620.115
Soggetti	Nanotechnology Water quality Water pollution Catalysis Water Quality/Water Pollution Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Water Pollutants Classification and its Effects on Environment -- Carbon Nanotubes Synthesis -- Adsorption -- Catalysis -- Membrane Technology -- Disinfection -- Sensing and Monitoring. .
Sommario/riassunto	This book presents carbon nanotubes as a potential material for the development of new waste water treatment technologies. Reviews on adsorption, catalysis, membrane, filtration and disinfection methods are provided. A special chapter presents the use of carbon nanotubes to sense and monitor water pollutants. The text underlies each technology and process as well as the current commercialization efforts. Research gaps are highlighted at the end with links to further reading material in the field.